

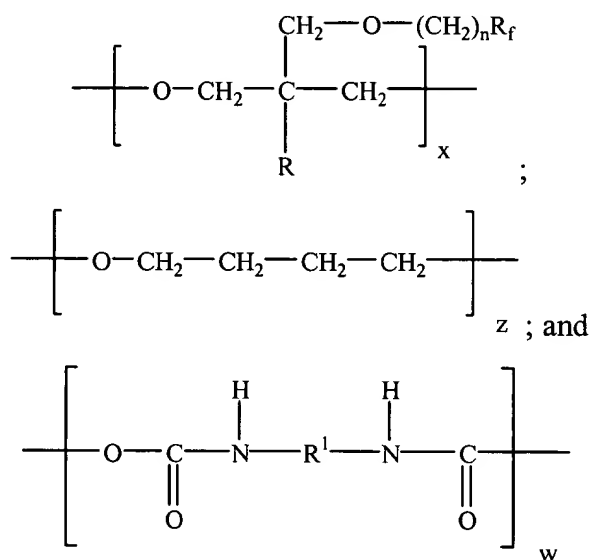
**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

1-19 (canceled)

20 (currently amended): A fluorinated polyurethane elastomer having FOX/THF segments and comprising a mixture of monomeric repeat units having the ~~general~~ formulae:



wherein:

- each n is independently selected and is a number from 1 to 3;
- each R is independently selected from the group consisting of methyl and ethyl;
- each R<sub>f</sub> is independently selected from the group consisting of linear and branched perfluorinated alkyls and isoalkyls having from 1 to about 20 carbons, and oxa-perfluorinated polyethers having from about 4 to about 60 carbons;
- x is about 10 to about 250;
- z is 1 to about 250;

15                     $\underline{R}^1 R_4$  is a divalent hydrocarbyl radical; and  
16                    w is 1 to about 50.

1                    21 (previously presented): The fluorinated polyurethane elastomer in accordance  
2 with claim 20, wherein said fluorinated polyurethane elastomer is a fluorinated thermoset  
3 polyurethane elastomer.

1                    22 (previously presented): The fluorinated polyurethane elastomer in accordance  
2 with claim 20, wherein said fluorinated polyurethane elastomer is a fluorinated thermoplastic  
3 polyurethane elastomer.

1                    23 (previously presented): The fluorinated polyurethane elastomer in accordance  
2 with claim 20, wherein the isocyanate segment is produced from a member selected from the  
3 group consisting of hexamethylene diisocyanate (HDI), isophorone diisocyanate (IPDI), 4,4'-  
4 methylene diphenyl-isocyanate (MDI), polymeric MDI, toluene diisocyanates, hydrogenated  
5 MDI (HMDI), polymeric HDI, trimethylhexane diisocyanate and mixtures of at least two  
6 thereof.

1                    24 (previously presented): The fluorinated polyurethane elastomer in accordance  
2 with claim 20, further comprising a cross-link formed from a cross-linking agent or a chain-  
3 extender selected from the group consisting of low molecular weight polyols and polyamines.

1                    25 (previously presented): The fluorinated polyurethane elastomer in accordance  
2 with claim 24, wherein said cross-linking agent is selected from the group consisting of  
3 trimethylolpropane, pentaerythritol, trimethylolethane, triethanolamine, 1,4-butanediamine,  
4 xylene diamine, diethylenetriamine, methylene dianiline and diethanolamine.

1                    26 (previously presented): The fluorinated polyurethane elastomer in accordance  
2 with claim 24, wherein said chain extender is a member selected from the group consisting of  
3 1,4-butanediol; 1,3-propanediol; and benzenedimethanol.

1                   27 (previously presented): The fluorinated polyurethane elastomer in accordance  
2 with claim 24, wherein said chain extender is 1,4-butanediol.

1                   28 (previously presented): The fluorinated polyurethane elastomer in accordance  
2 with claim 20, wherein the fluorinated polyether segment is produced from at least one mono-  
3 substituted FOX monomer selected from the group consisting of 3-(2,2,2-  
4 trifluoroethoxymethyl)-3-methyloxetane; 3-(2,2,3,3,4,4,4-heptafluorobutoxymethyl)-3-  
5 methyloxetane; 3-(2,2,3,3,4,4,5,5,6,6,7,7,8,8, 8-pentadecafluorooctyloxymethyl)oxetane; 3-  
6 (3,3,4,4,5,5,6,6,7,7,8,8,8-trideca-fluorooctyloxymethyl)-3-methyloxetane; 3-(3,3,4,4,5,5,6,  
7 6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyloxymethyl)-3-methyloxetane; and 3-  
8 (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyloxymethyl)-3-  
9 methyloxetane.